SCIENCE CLASSROOM LAB & SAFETY RULES

Welcome to Miss. Cheung's science class! You are about to enter a program that is both challenging yet, rewarding. The knowledge and skills you learn now, will benefit you in all your future work in science, as well as in your home and future career. Your parents, teacher, friends and classmates all want your science experience to be an enjoyable and safe one.

BE SCIENCE READY

- ✓ Come prepared with your textbook, notebook, writing utensils, and anything else you need.
- ✓ Keep yourself and your work area tidy and clean.
- ✓ Keep aisles clear of bags, etc.
- ✓ Keep clothing and hair out of the way. Roll up sleeves; tuck in loose clothing, and tie back hair. Remove loose jewellery.
- ✓ Do not wear contact lenses while doing investigations.
- ✓ **READ all written instructions and do appropriate lab preparations before starting an activity or investigation.**

FOLLOW INSTRUCTIONS

- ✓ Do not enter a laboratory unless a teacher is present.
- ✓ Listen to your teacher's directions. Read written instructions. Follow them carefully.
- ✓ Ask your teacher for directions if you are not sure what to do.
- ✓ Wear eye protection and/or other safety equipment when instructed by your teacher.
- ✓ Never change anything, or start an activity or investigation, without your teacher's approval.
- ✓ Get your teachers approval before you start an investigation that you have designed yourself.

ACT RESPONSIBLY

- ✓ Pay attention to your own safety and the safety of others.
- ✓ Know the location of MSDS information, exits, and all safety equipment, such as the first-aid kit, fire blanket, fire extinguisher, and eye wash station.
- ✓ Alert your teacher immediately if you see a safety hazard, such as broken glass, a spill, or unsafe behaviour.
- ✓ Stand while doing labs.
- ✓ Avoid sudden or rapid motion in the lab, especially near chemicals or sharp instruments.
- ✓ Never eat, drink, or chew gum in the lab.
- ✓ Do not taste, touch, or smell any substance in the lab unless you teacher asks you to do so.
- ✓ Clean up and put away any equipment after you are finished.
- ✓ Wash your hands with soap and water at the end of each activity or investigation.

CHEMICALS

- Assume any unknown chemicals are hazardous.
- When taking a chemical from a container, first check labels to be sure you are taking the correct substance. Replace the lid securely when you have taken what you need.
- Do not use anything without a label.
- Always label your containers before pouring chemicals into them (test tube, beaker, etc.)
- Pour liquids carefully to avoid splashing.
- When instructed to smell a chemical, just waft or fan the vapours toward your nose.
- Do not return surplus chemicals to stock bottles to avoid contamination.
- Dispose of excess chemicals as directed by teacher.
- If any part of your body comes in contact with a chemical, wash the area immediately and thoroughly with cool water. Rinse affected eyes for at least 15 minutes. Alert your teacher.

HEAT SOURCES

- Secure Bunsen burner to a retort stand with a clamp before lighting it.
- Never leave a lighted burner unattended.
- Never heat a flammable material over a burner.
- Keep flammable materials away from flames.
- Never leave a container to boil dry.
- Always turn off the gas at the valve, not just using the gas-adjustment screw on the Bunsen burner.
- If you burn yourself, apply cool water to affected area and alert your teacher.

GLASS & SHARP OBJECTS

- Never use glass that is broken, chipped or cracked.
- Never pick up broken glass with your fingers, use a broom and dustpan and dispose of in the broken glass container.
- If you cut yourself, inform teacher immediately.
- Make sure cutting instruments are sharp.

ELECTRCITY & LIGHT

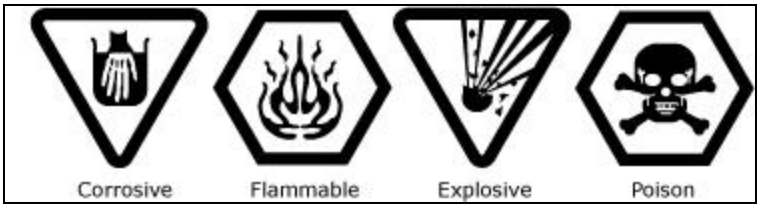
- Never touch an electrical device, electrical cord, or outlet with wet hands.
- Keep water away from electrical equipment.
- Do not use equipment with damaged wires.
- Do not look directly at any bright source of light.
- Never point a laser beam at anyone's eyes.
- In the event of an electrical shock, do not touch the affected person or the equipment the person was using. Break contact by switching off the source of electricity.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) SYMBOLS

WHMIS provides workers and students with complete and accurate information about hazardous products. Clear and standardized labels must be present on the product's original container or must be added to containers if the product is transferred. If the material is hazardous, the label will include one or more of the WHMIS symbols:

HAZARDOUS HOUSEHOLD PRODUCT SYMBOLS (HHPS)

The *Canadian Hazardous Products Act* requires manufacturers of consumer products to include a symbol that specifies both the nature and the degree of any hazard. The HHPS were designed to do this. The symbol is made up of a picture and a frame. The picture tells you the type of danger; the frame tells you the degree of hazard:



STUDENT SAFETY CONTRACT

1. I have read all of the general laboratory safety rules and I understand what they mean. These rules have been placed in my notes for easy reference. I will follow them throughout the entire course.
2. I will follow all directions given by my teacher.
3. I will wear the appropriate personal protective safety equipment while conducting class activities and labs.
4. I agree to conduct myself in a responsible manner, at all times in a laboratory situation.

I, _____, have read and agree to abide by the safety rules set forth above and any printed/verbal instructions provided by the teacher. I agree to follow all other written and/or verbal instructions given in class. **If I do not follow these instructions, I realize that my privilege to do laboratory work will be withdrawn.**

Signature: _____ Date: _____